

Figure 1

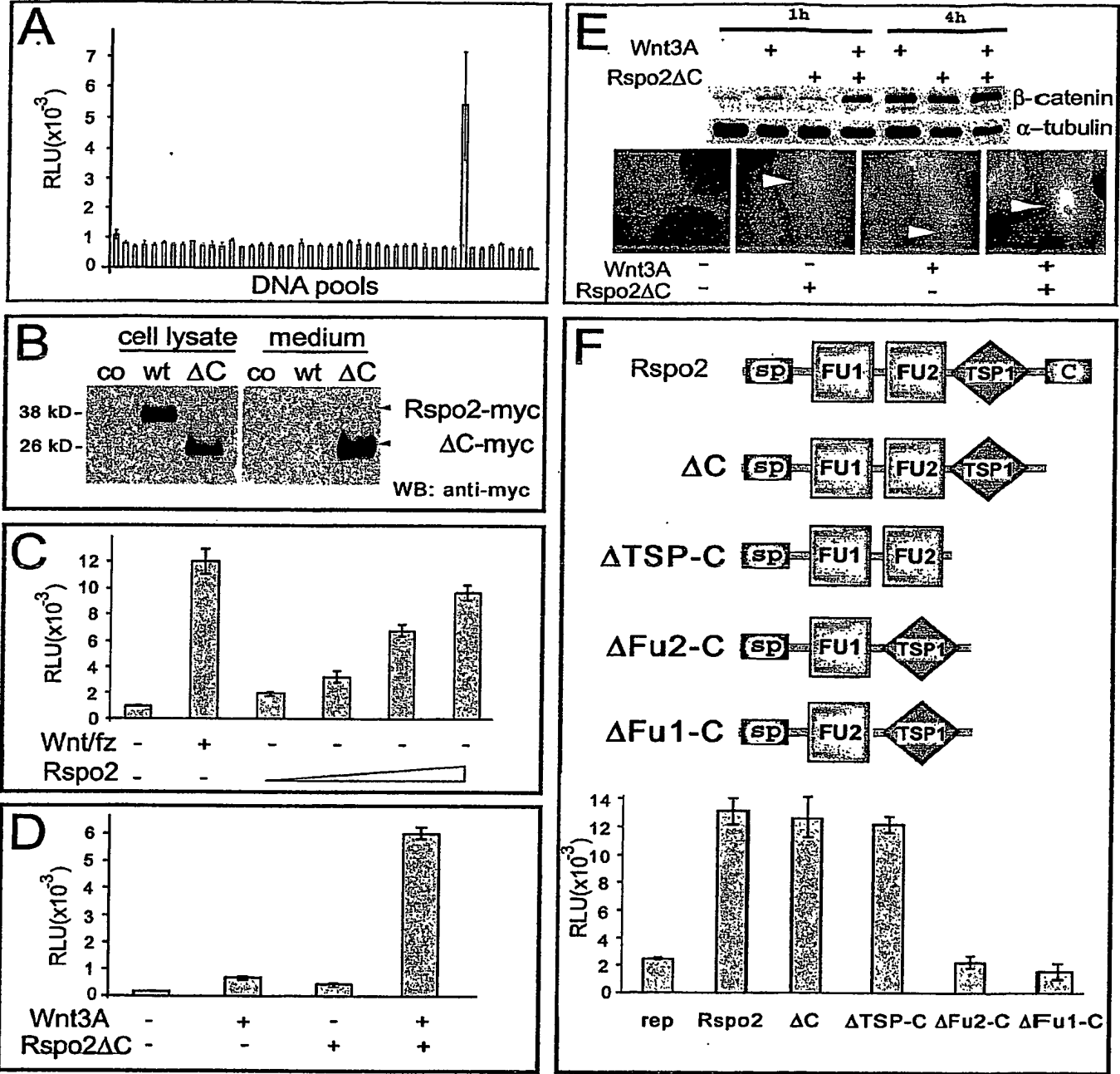


Figure 2

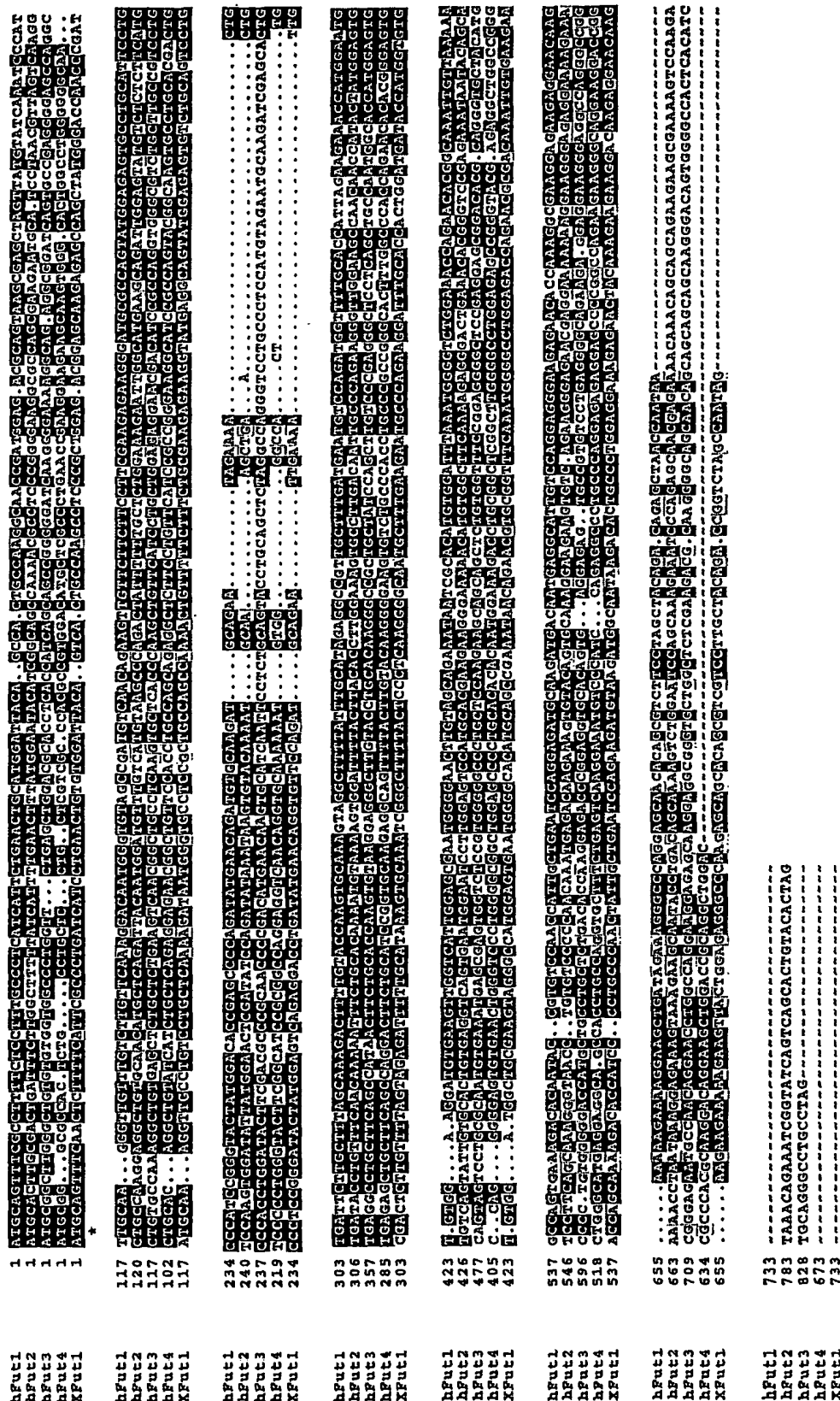


Figure 3

hFut1	1	MQFRFLFSFALILLNCDYSHCO.GNRWRRSRASVVSNPICKG.CLSCKDNGCSCRCCQQR
hFut2	1	MLRLISWLFILNFMFYGISQNASRGRORRMHPNVSQCCQGGCATCSQYNGCLSCPKP
hFut3	1	MRIGLCVVALVSSWTLTISR.GIGGRQRRIISAEGSOACAKGCELCEVNGCLKCSPP
hFut4	1	MRAPLCCLLLVAHAVDMALNR.....RKQVGTGCGNCTG.CFICSEENGCSCTCQQR
hFut1	59	LFFFLRREGIRQYGECLHSCPSGYGHRAPDMNRCA.....CRIENC
hFut2	61	LFFALERIGKQIGVCLSSCPSGYGTRYPDNNCTK.....CKAD.C
hFut3	60	LFILLERNDRQVGVCLPSCPYPGYDARNPDNNCINSSAVPAALGQGPALHVECKIEHC
hFut4	54	LFLFRRREGIRQYCKLCHDCPPGYGIRGQEVNCKK.....CGAT.C
hFut1	102	DSCFSKDFCTKCKVGFYLHGRGSRFDECPGCFAPLEETMECEG..CEVGHWSEWGTCSRN
hFut2	103	DTCFNKNFCTKCKSGFYLHLGCLDNCEGLEANNHTMECVSIVHCEVSEWNPWSPCCKK
hFut3	120	RACFSTNFCCTKCKEGLYLHKGCTYPA CPEGSSAANGTMECSPAQCEMSEWSPWGPCCKK
hFut4	96	ESCFSDFCITCKRQFYLYKGCCLPTCPFGLLAHONTRECQGE..CEIGPWGGSWSPCTEN
hFut1	160	NKTCGFKWGLETRTRQLMKRPVKDPTPCPTIAESRRCKMTMHCPCGCKR.....PKMFER
hFut2	163	GKTCGFKRGTETRVREI QHPSKKNLCPPTNEERRCTVORKKCKGGERG....KKGREK
hFut3	180	QQLCGFRRGSEERTRWTHAPVDDHACSDTKERRTCTVRRVPCPEGOKR....KKGCGGR
hFut4	154	GKTCGSAWGLESRVREAGRAGHETATCQVISERCPTOR.PCP.GERSPGQKKGRKDR
hFut1	217	NKK..K...KRKLIERAQEGHVSFATDRANO.....
hFut2	220	RKKPNKGESKEAPDSKSLSSKEPEQRENKQKQKRRKVQDKQKSVSVTVH
hFut3	237	REN.....ANRNLARKESEKAGAGS.RRKGGQQQQQQQGTGTVGLTSAGPA~~~
hFut4	212	RPR.....KDRKLDRLD.....

Figure 4

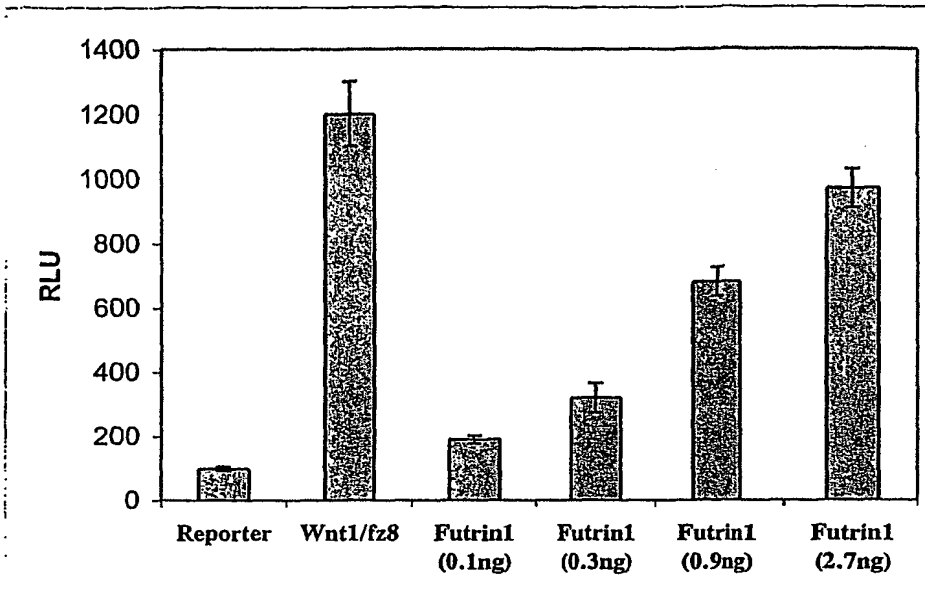
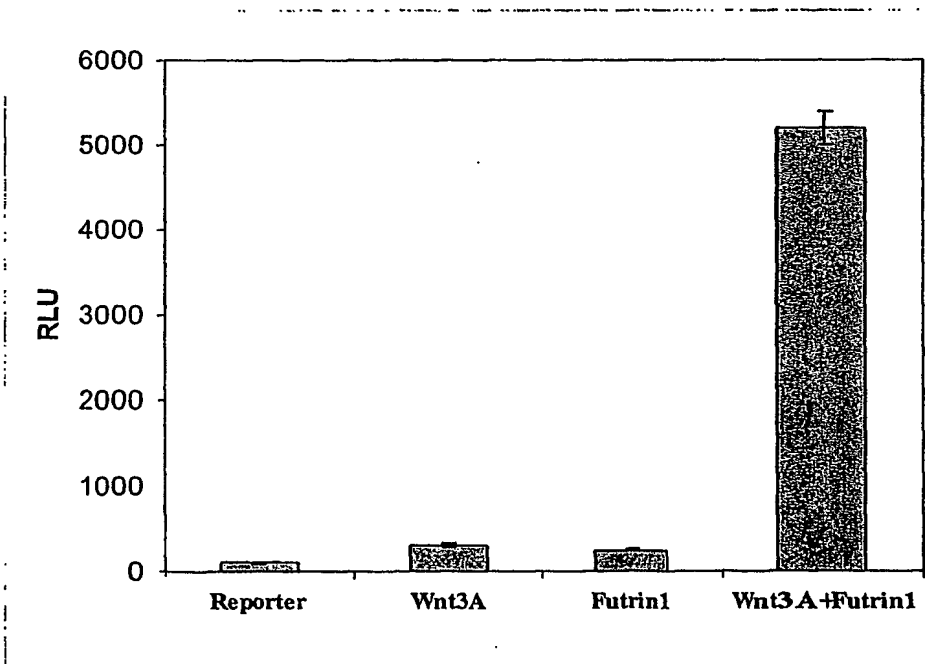
A**B**

Figure 5

A

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hR-spondin1 1  MRIGLCVVALVLSWHTLTISR . GIKGKRQRRTSABGSQACAKGCELCEVNGCLKCSPK
hR-spondin2 1  MQFRIFSFALLIILNCMDVSHCO . GNRWRRSKRASVVSNPICKG . CLSCSKDNGCSRCQOK
hR-spondin3 1  MHLRLISWLFALLNFMEYIGSQNASRGRQRQRHHPNYSQCCQGGCATCSDYNGCLSCKPR
hR-spondin4 1  MRAPLCQLLLLVAAHAVDMLALNR . . . . . RKQVGTGLGGNCTG . CII CSEENGCTCQQR
          signal peptide                                furin-like domain 1

hR-spondin1 60  LFFILIRNDIRQVGVCPLPSCPFGYFDARNPDMNKCI . CKIEHCEACFSHNFCTKCKEGLY
hR-spondin2 59  LFFELIRREGMROYGECILHSCPSGYTGHRAPDMNRCARCRIENCDCFSKDFCTKCKVGFY
hR-spondin3 61  LFFALERIGMKQIGVCLSSCPSGYTGTRYPDINKCTKCKAD . CDTCFNKNFCTKCKSGFY
hR-spondin4 54  LFLFIRREGIRQYVKCLHDCPPGYFGIRGOEVNRCKKCGAT . CESCFSDPFCIRCKRQFY
          furin-like domain 2

hR-spondin1 119 LHKGRQCPACPEGSSAANGTMECS SPAQCEMSEWSPWGPCSKKQQLCGFRRGSEERTRRV
hR-spondin2 119 LHRGRSFDECPDGFAPLEETMECV . . CEVGHWSEWGTCSNNNTCGFKWGLETRTROH
hR-spondin3 120 LHLGKCLDNCPGLEANNHTMECVSIVHCEVSEWNPWSPCTRKCKTCGFKRGCTETRVREI
hR-spondin4 113 LYKGRCLPTCPPGTLAHQNTRECOGE . . CELGPWGGWSPCTHNGKTCGSAWGLESRVREA
          thrombospondin type 1 domain

hR-spondin1 180 LHPVGDHAACSDTKETRECTVRVPCPEGQKR . . . . . RKGGQGRREN . . . . . ANRNLARKE
hR-spondin2 160 VKKPVKDTIPCTIAESRRCKMTMRCPGCKRT . . . . . PRKKEKRNKK . . . . . KRKLIERA
hR-spondin3 163 LQHPSSAKGNLCPPPTNETRKCTVQRKKCKQKGERG . . . . . KKGRERKRRKPNKGESKEATPDSK
hR-spondin4 154 GRAGHEEAATCOVLSESRKCPQR . PCP . GERSPGQKKGRKDERPR . . . . . KDRKLDRL

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hR-spondin1 231 SKELAGAGSRRRKGGGQQQQQOQGTVGPLTSAGPA----
hR-spondin2 229 QEGHSEVFTATDRANQ-----
hR-spondin3 237 SLSSSKETFEQRENKQQQKKRKVQDKQKSVSVSTVH
hR-spondin4 224 D-----

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B

hRspo2	39.9		
hRspo3	43.7	45.9	
hRspo4	40.3	43.9	41.2
	hRspo1	hRspo2	hRspo3

C

mRspo2	40.5	95.5	44.2	44.8
XRspo2	40.8	83.5	43.8	42.2
	hRspo1	hRspo2	hRspo3	hRspo4

Figure 6

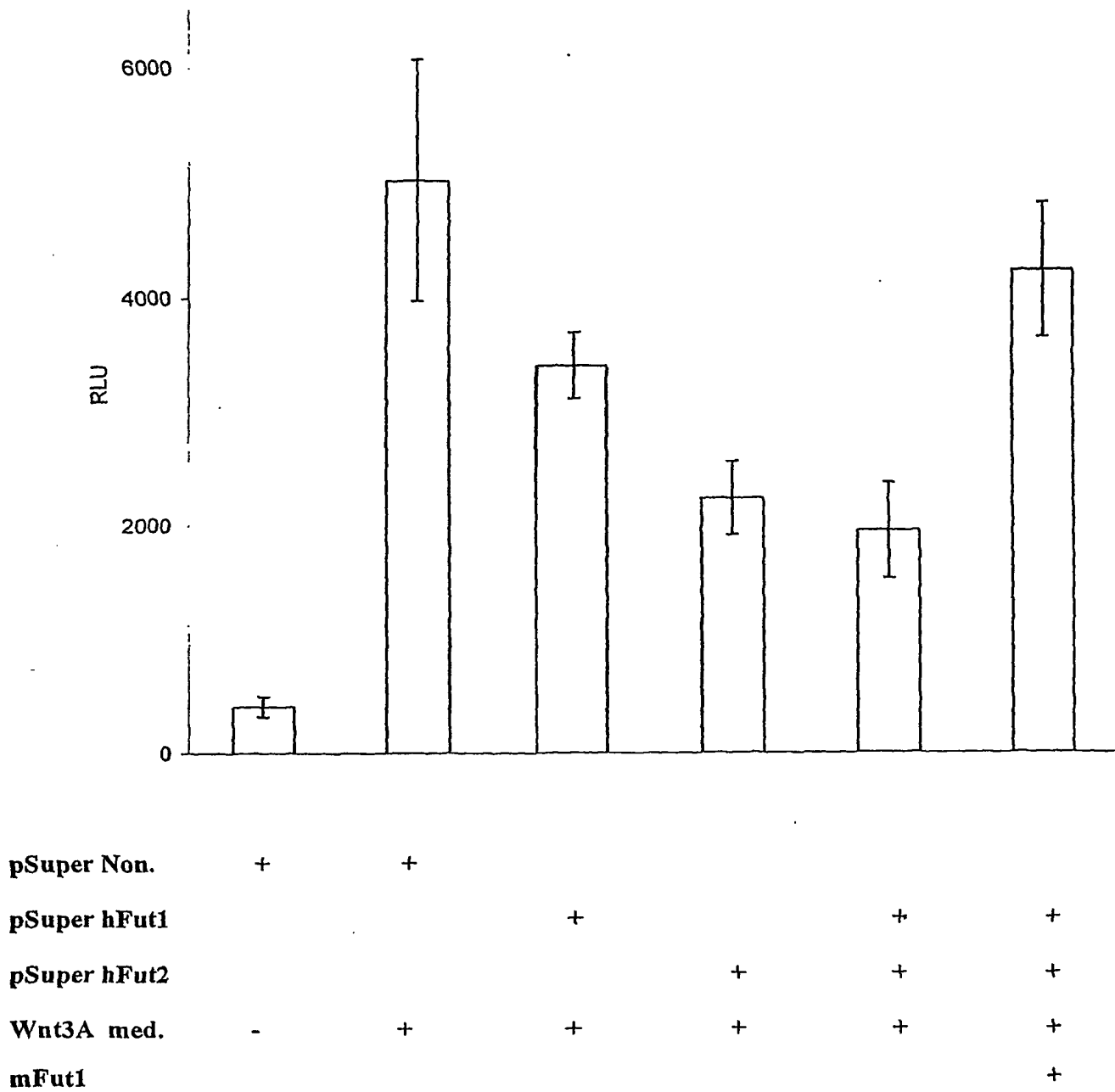


Figure 7

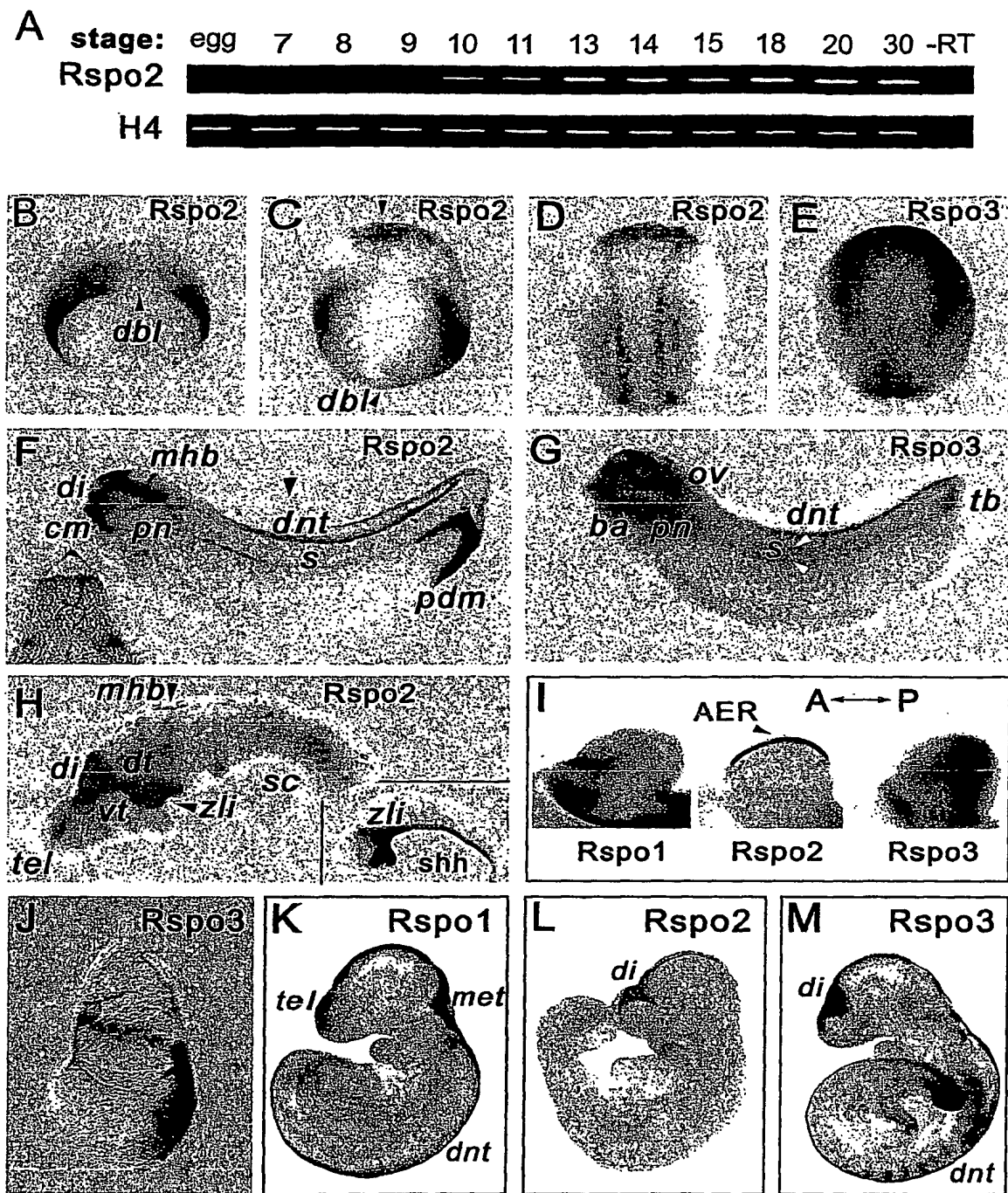


Figure 8

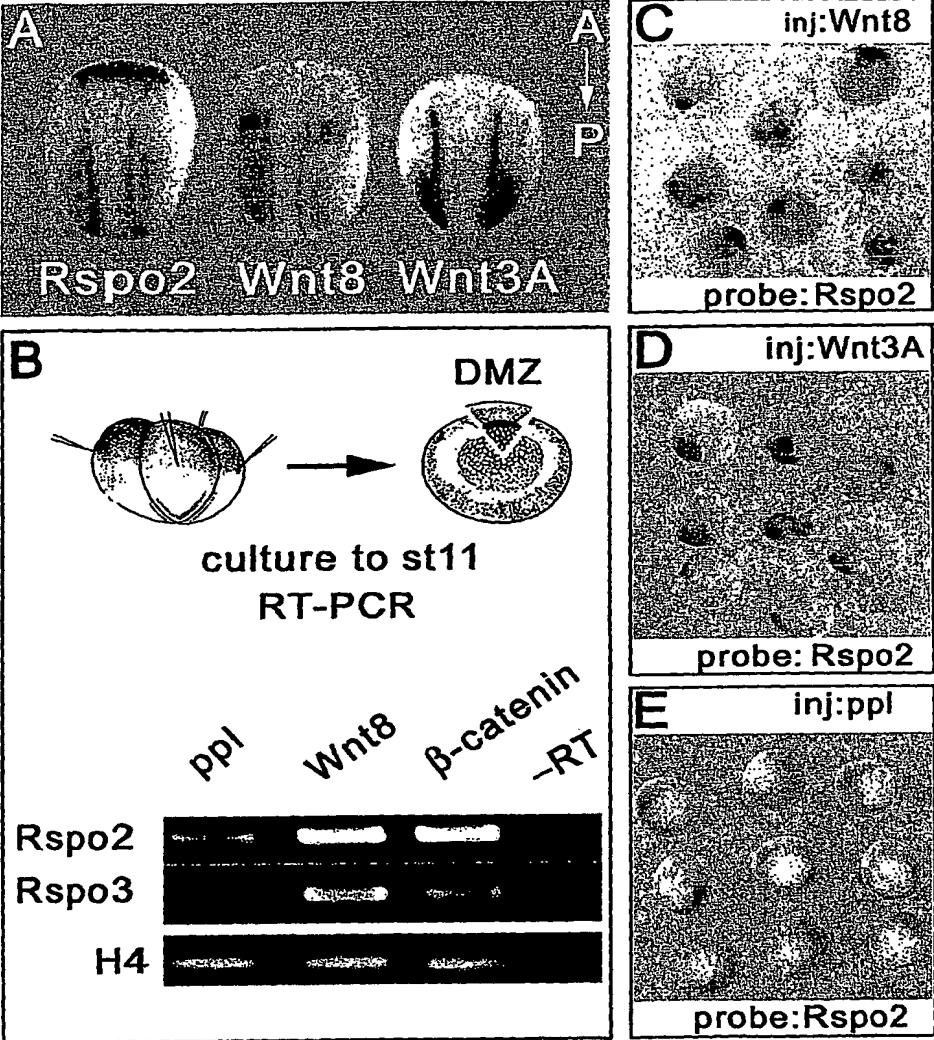
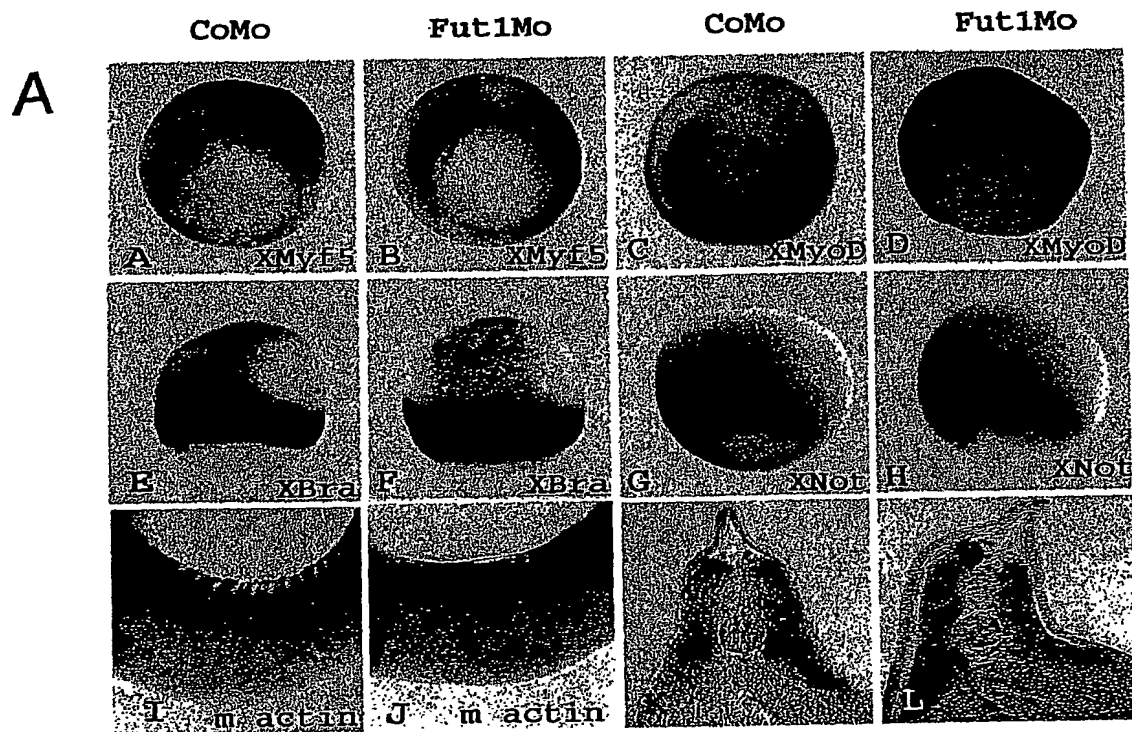
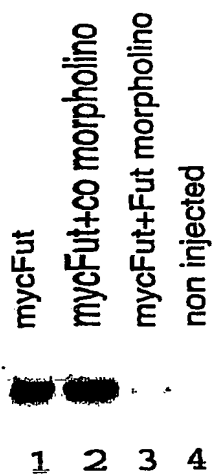


Figure 9



B



C

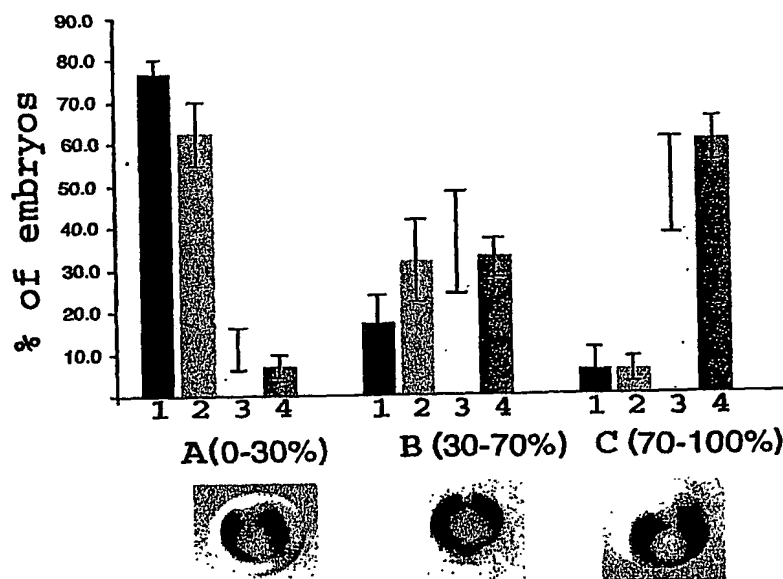


Figure 10

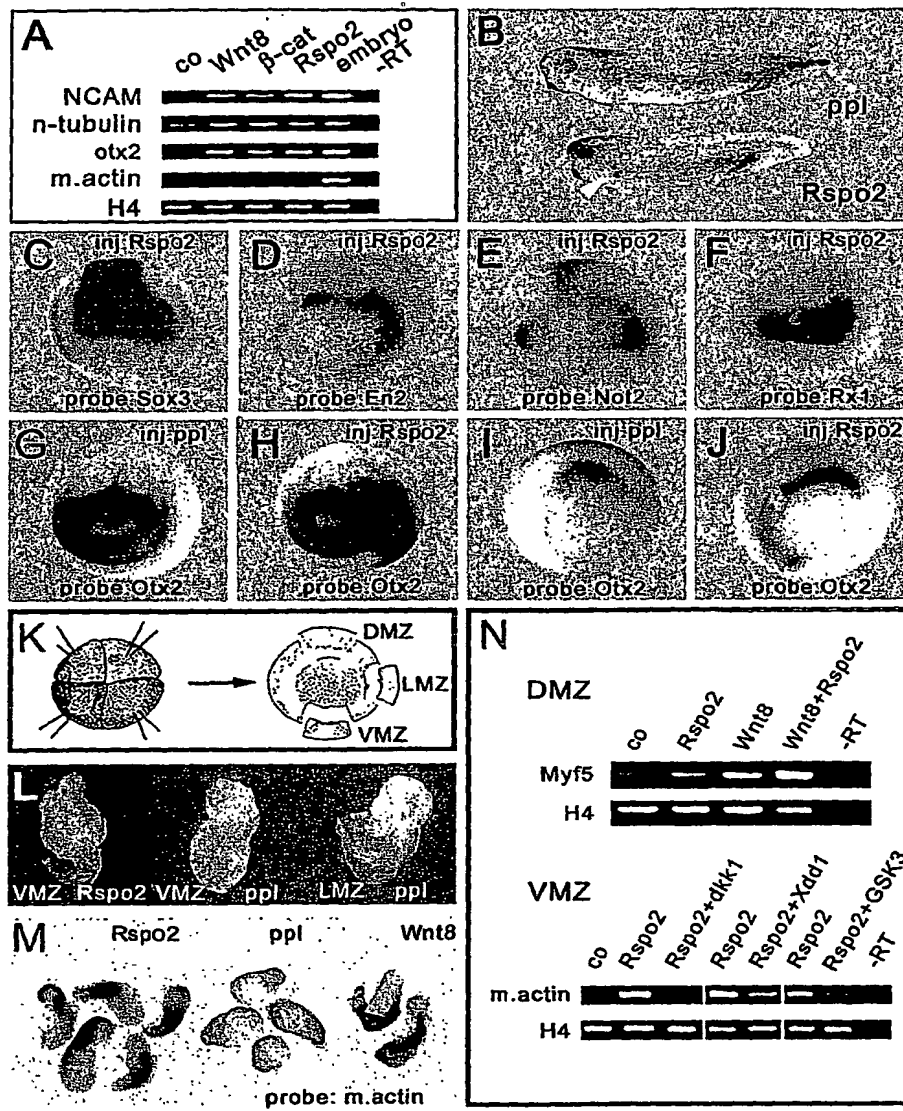


Figure 11

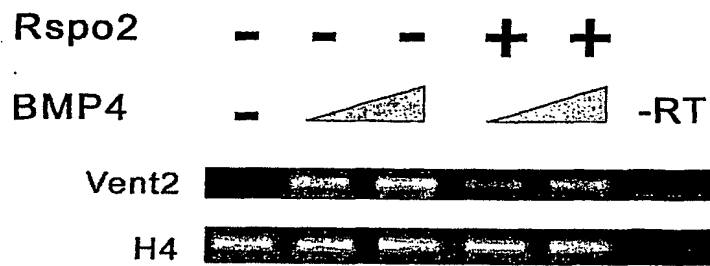
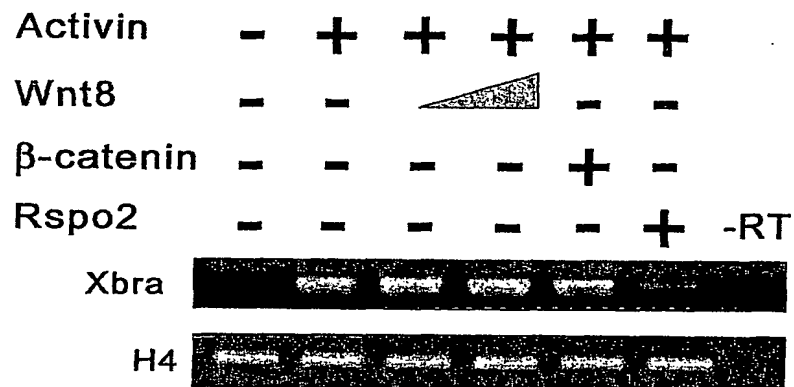
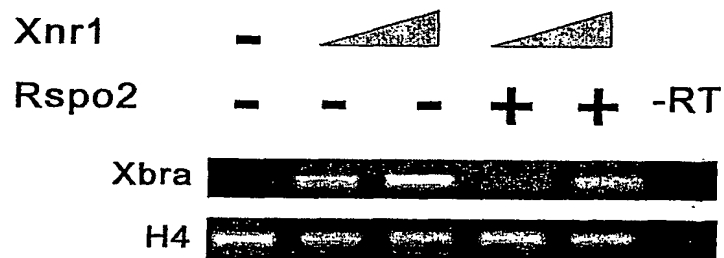
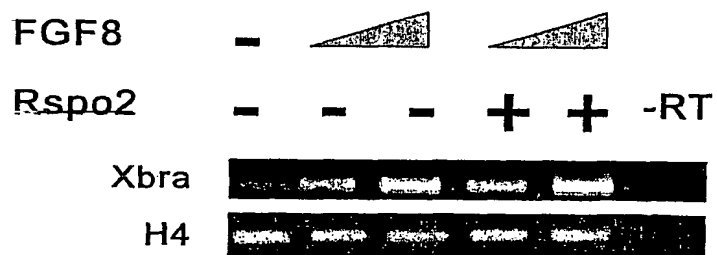
A**B****C****D**

Figure 12

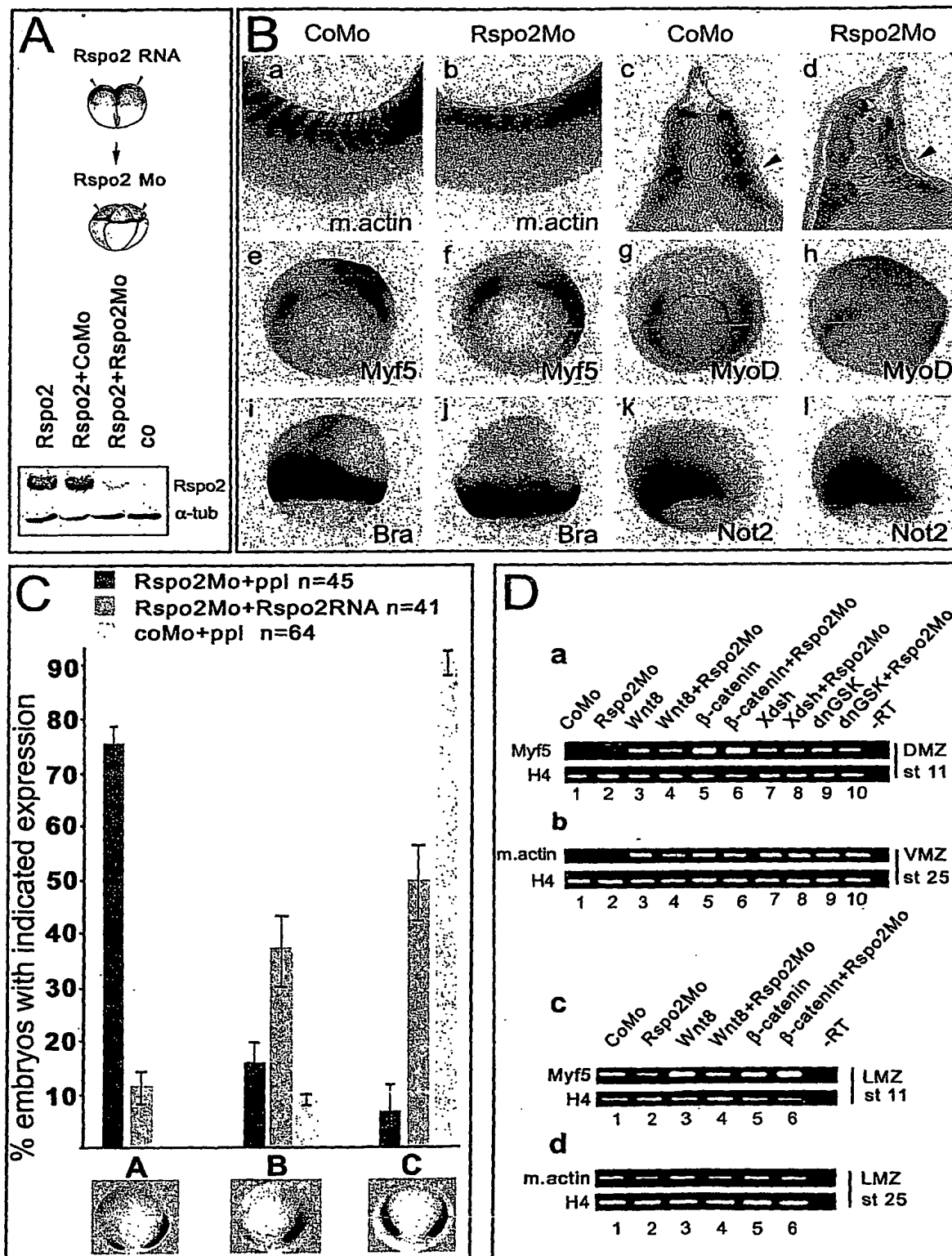


Figure 13

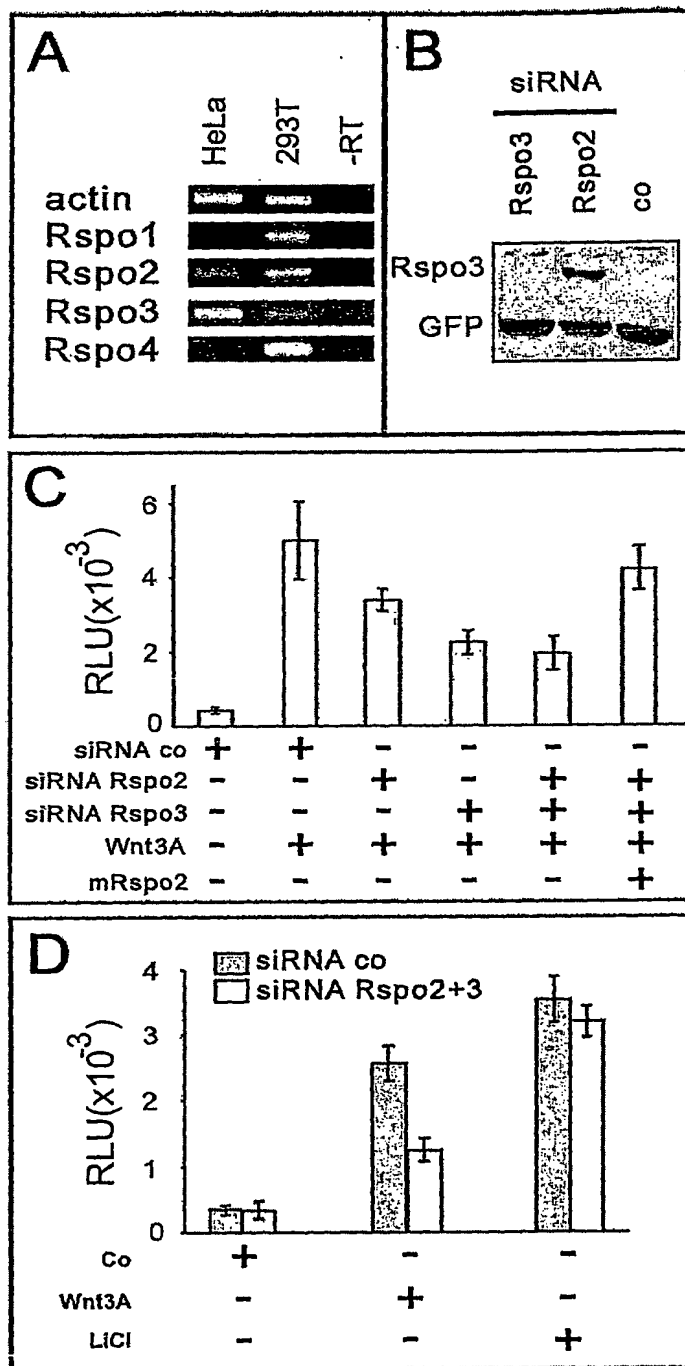


Figure 14

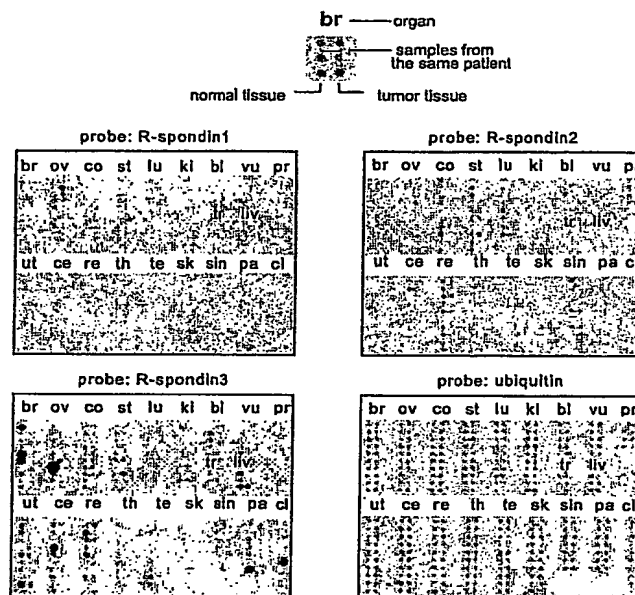


Figure 16

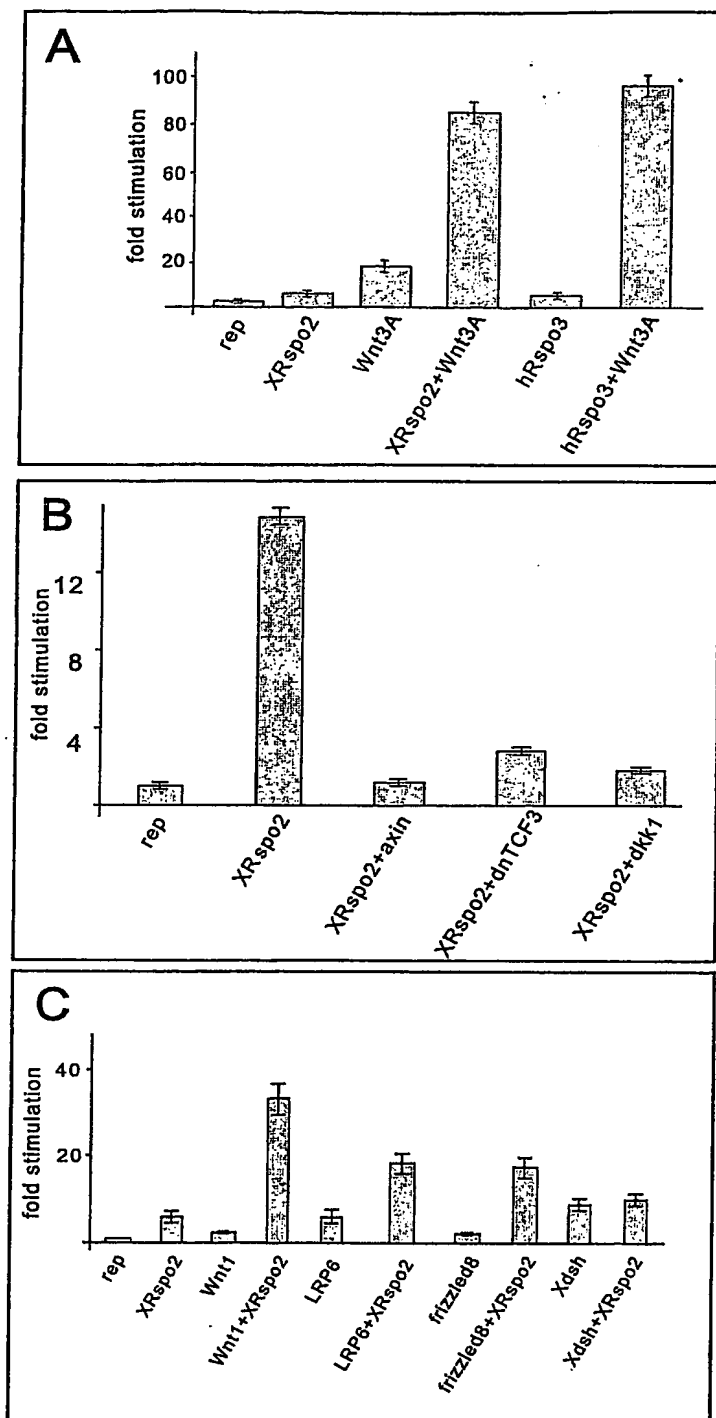


Figure 17